FIG. 1

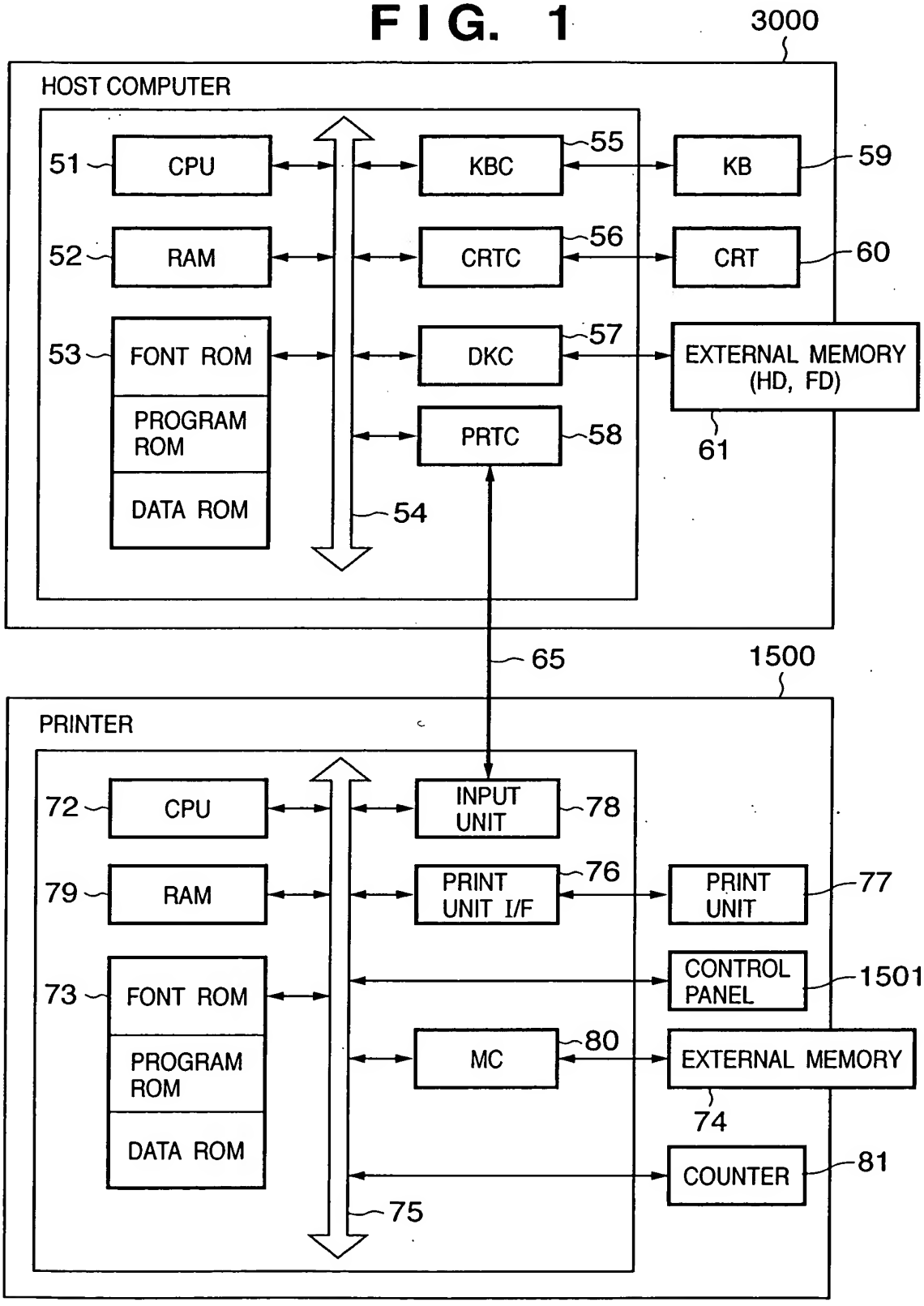

3000
HOST COMPUTER
51
CPU
52
RAM
53
FONT ROM
PROGRAM ROM
DATA ROM
54
55
KBC
56
CRTC
57
DKC
PRTC
58
KB
59
CRT
60
EXTERNAL MEMORY (HD, FD)
61
65
1500
PRINTER
72
CPU
79
RAM
73
FONT ROM
PROGRAM ROM
DATA ROM
75
INPUT UNIT
78
PRINT UNIT I/F
76
MC
80
PRINT UNIT
77
CONTROL PANEL
1501
EXTERNAL MEMORY
74
COUNTER
81

FIG. 2

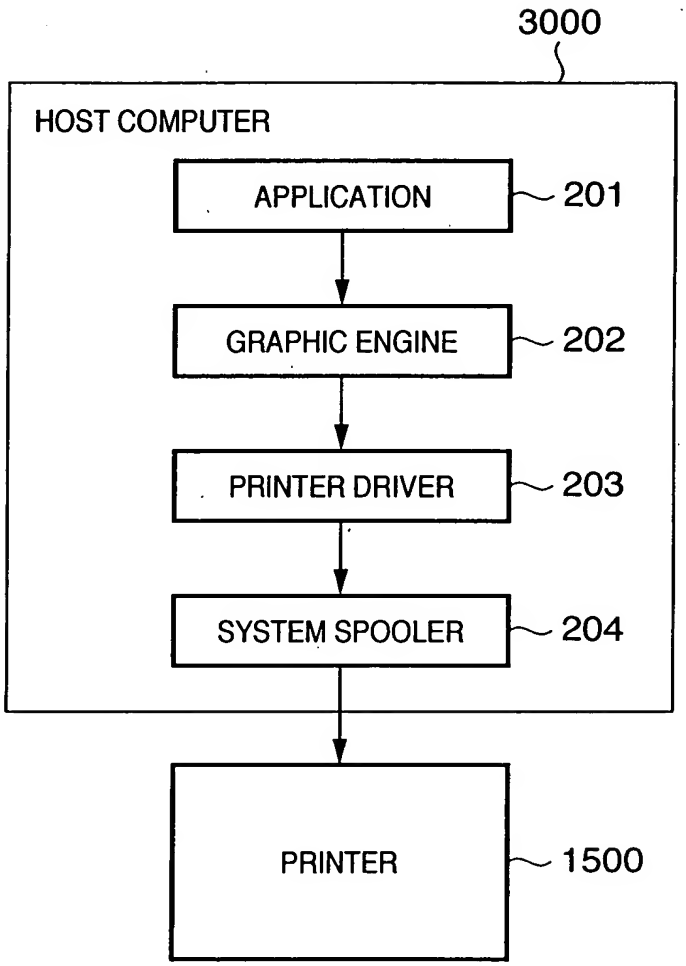

3000
HOST COMPUTER
APPLICATION
201
GRAPHIC ENGINE
202
PRINTER DRIVER
203
SYSTEM SPOOLER
204
PRINTER
1500

FIG. 3

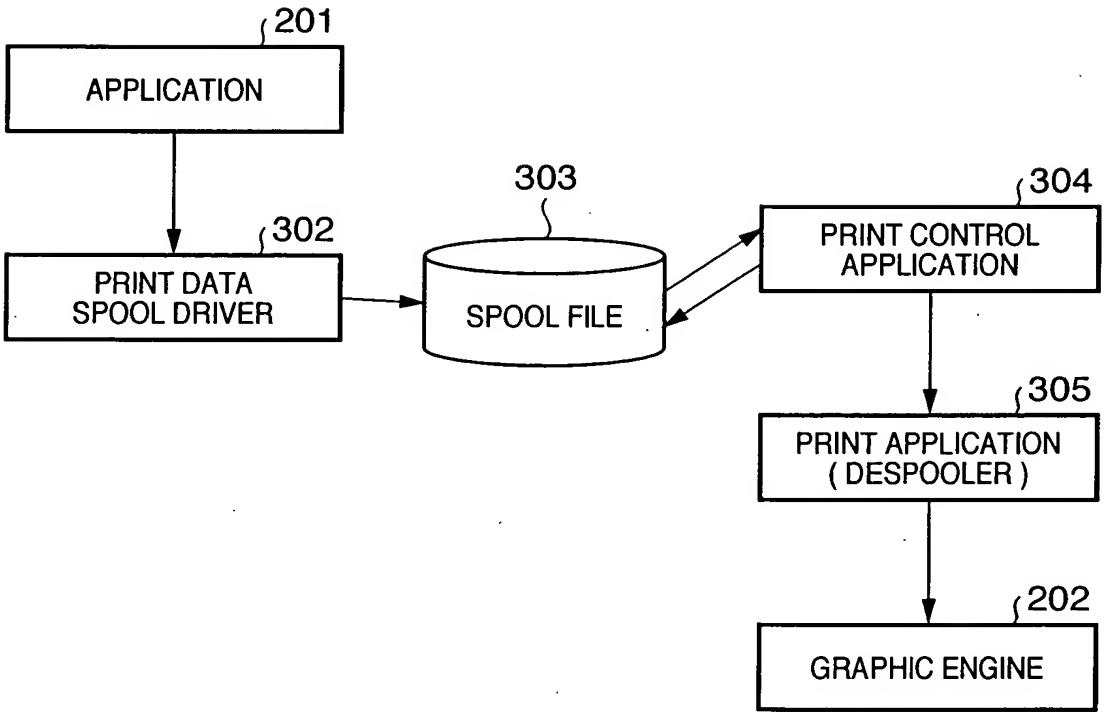

201
APPLICATION
302
PRINT DATA
SPOOL DRIVER
303
SPOOL FILE
304
PRINT CONTROL
APPLICATION
305
PRINT APPLICATION
(DESPOOLER)
202
GRAPHIC ENGINE

FIG. 4

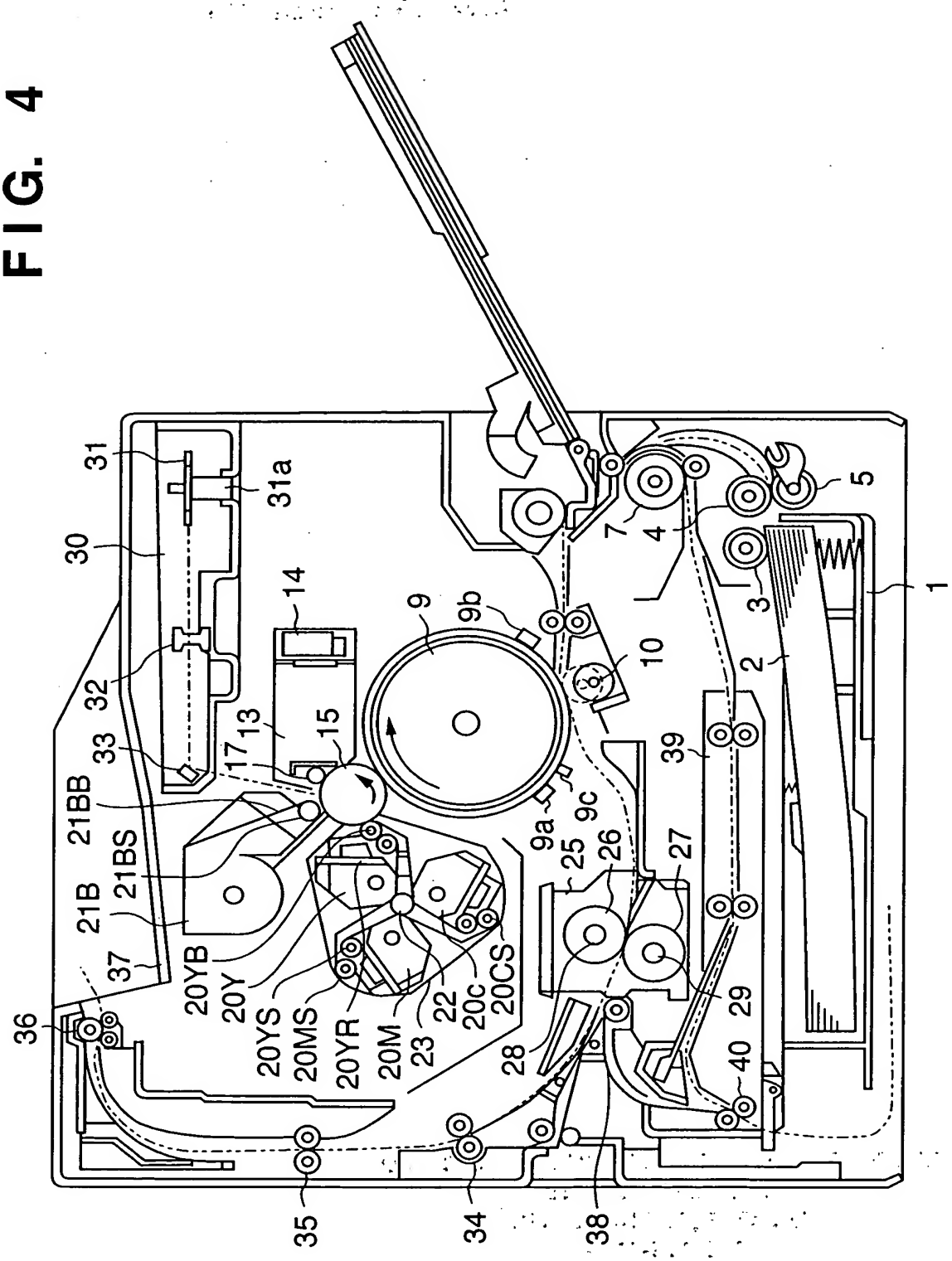

31
31a
30
14
9
9b
32
10
13
15
2
33
17
39
21BB
9a
9c
21BS
25
26
27
21B
37
20YB
20Y
20YS
20MS
20YR
20M
23
22
20c
20CS
28
29
36
40
35
34
38
5
7
4
3
1

FIG. 5

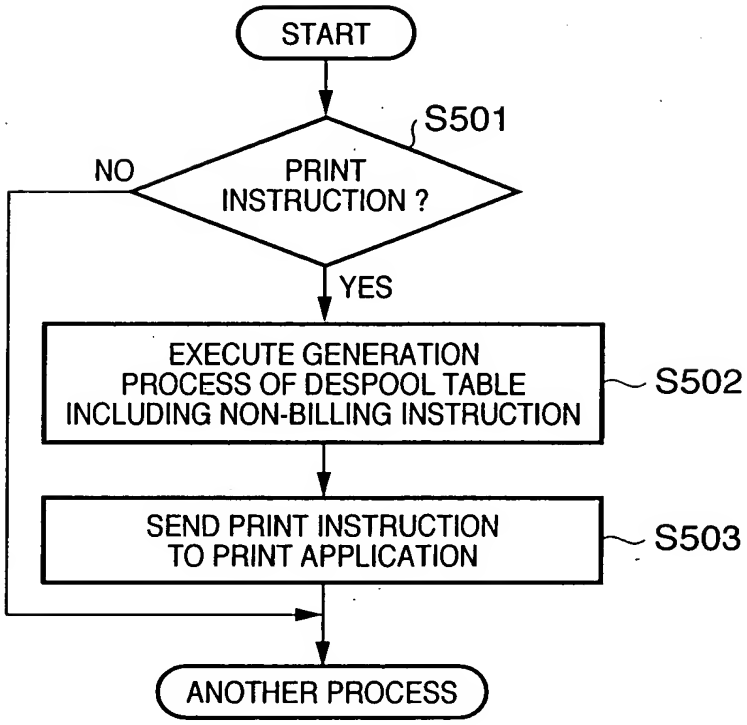

START
S501
PRINT INSTRUCTION ?
NO
YES
EXECUTE GENERATION PROCESS OF DESPOOL TABLE INCLUDING NON-BILLING INSTRUCTION
S502
SEND PRINT INSTRUCTION TO PRINT APPLICATION
S503
ANOTHER PROCESS

FIG. 6

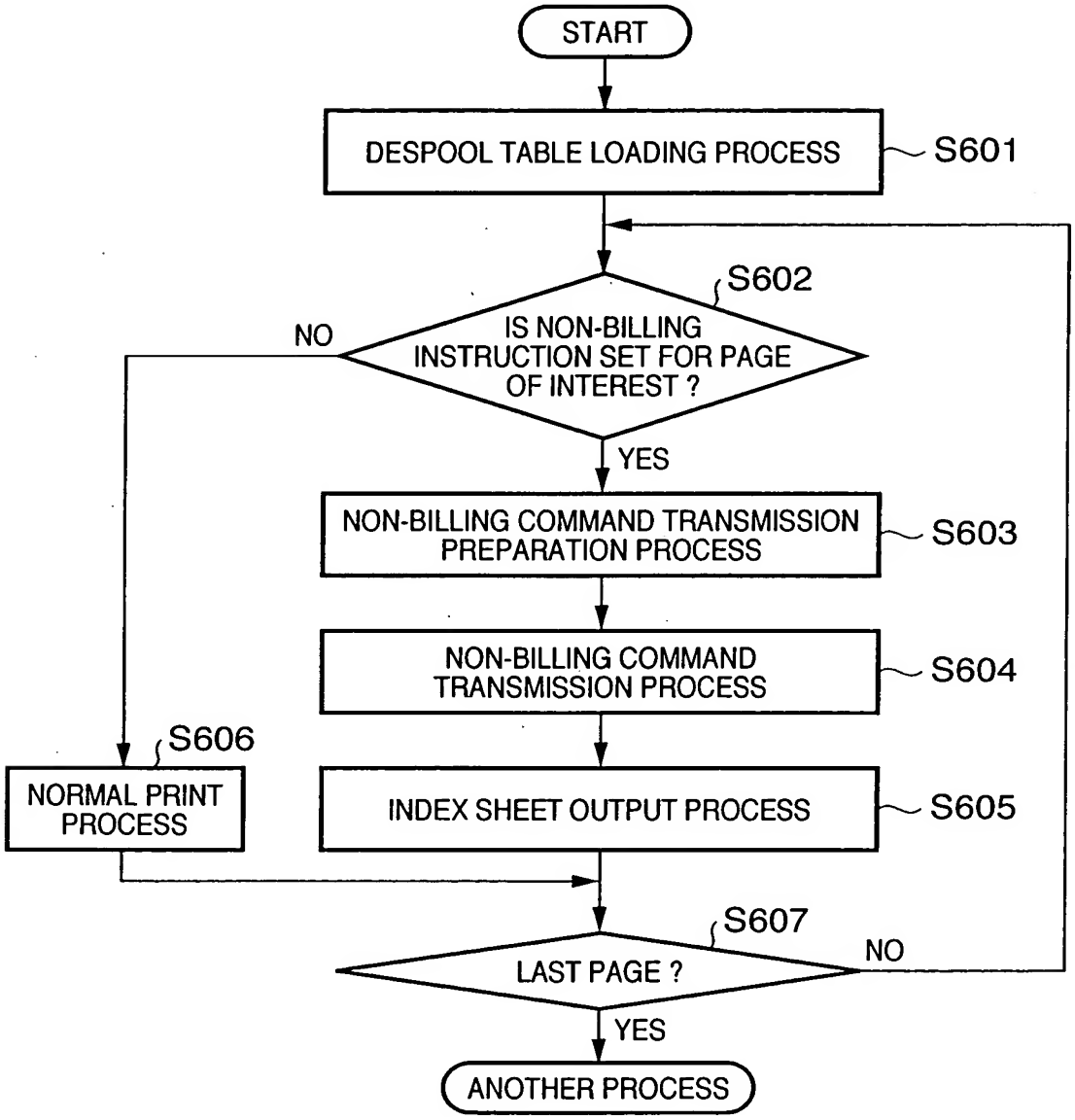

START
DESPOOL TABLE LOADING PROCESS
S601
S602
IS NON-BILLING INSTRUCTION SET FOR PAGE OF INTEREST ?
NO
YES
NON-BILLING COMMAND TRANSMISSION PREPARATION PROCESS
S603
NON-BILLING COMMAND TRANSMISSION PROCESS
S604
S606
NORMAL PRINT PROCESS
INDEX SHEET OUTPUT PROCESS
S605
S607
LAST PAGE ?
NO
YES
ANOTHER PROCESS

FIG. 7

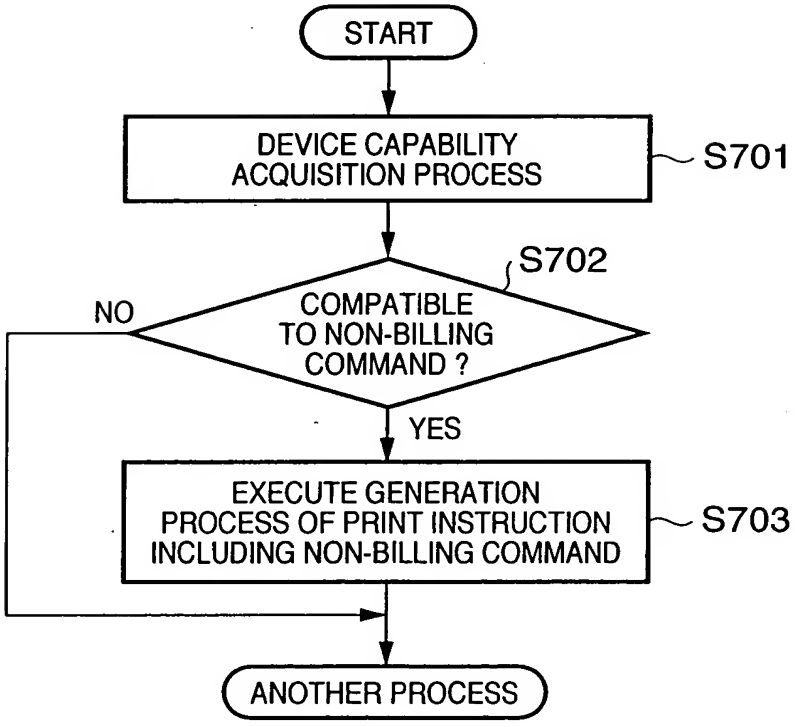

START
DEVICE CAPABILITY ACQUISITION PROCESS
S701
S702
COMPATIBLE TO NON-BILLING COMMAND ?
NO
YES
EXECUTE GENERATION PROCESS OF PRINT INSTRUCTION INCLUDING NON-BILLING COMMAND
S703
ANOTHER PROCESS

FIG. 8

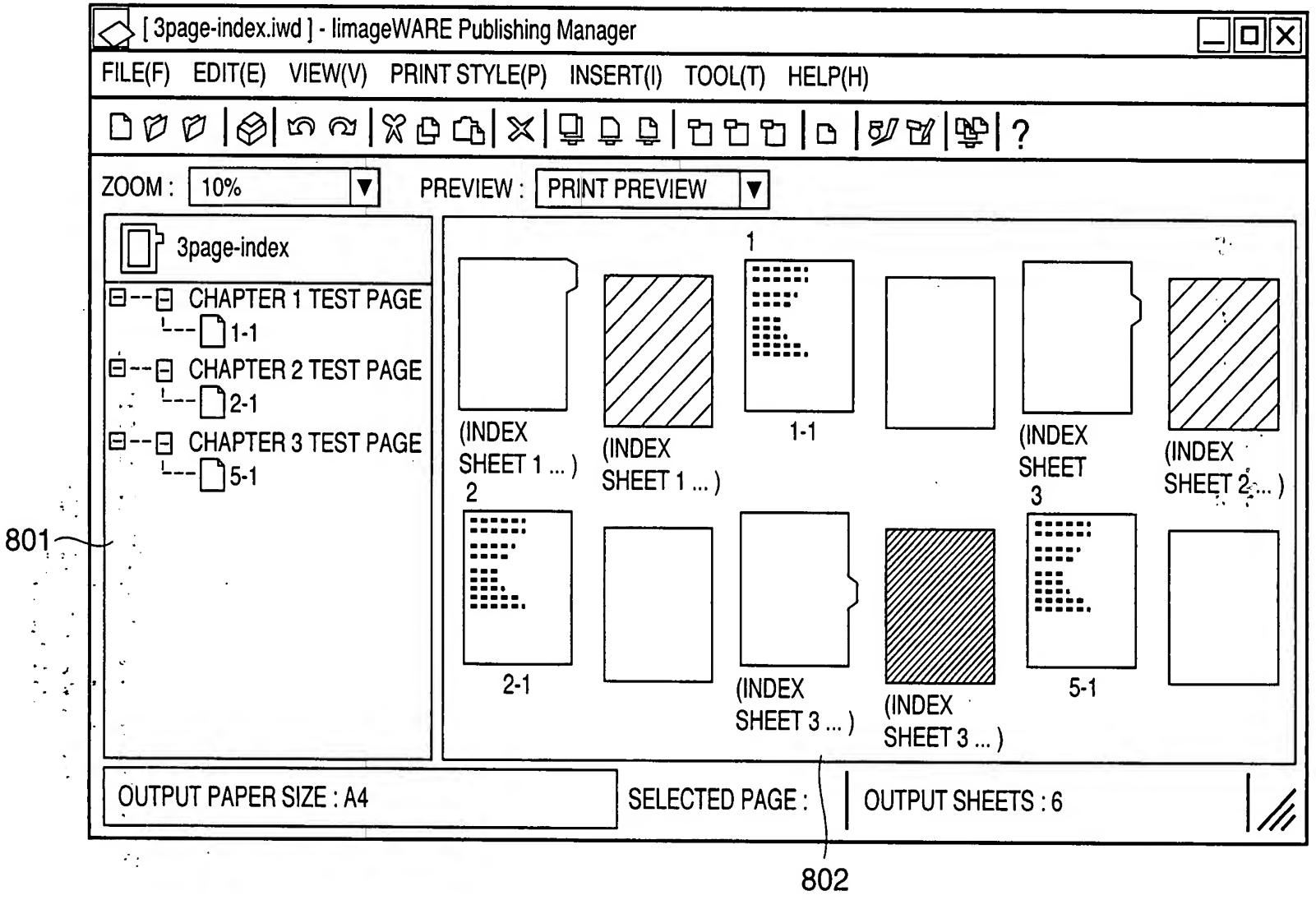

[3page-index.iwd] - ImageWARE Publishing Manager
FILE(F) EDIT(E) VIEW(V) PRINT STYLE(P) INSERT(I) TOOL(T) HELP(H)
ZOOM : 10%
PREVIEW : PRINT PREVIEW
3page-index
CHAPTER 1 TEST PAGE
1-1
CHAPTER 2 TEST PAGE
2-1
CHAPTER 3 TEST PAGE
5-1
801
1
(INDEX SHEET 1 ...)
2
(INDEX SHEET 1 ...)
1-1
(INDEX SHEET 3
3
(INDEX SHEET 2 ...)
2-1
(INDEX SHEET 3 ...)
(INDEX SHEET 3 ...)
5-1
OUTPUT PAPER SIZE : A4
SELECTED PAGE :
OUTPUT SHEETS : 6
802

FIG. 9

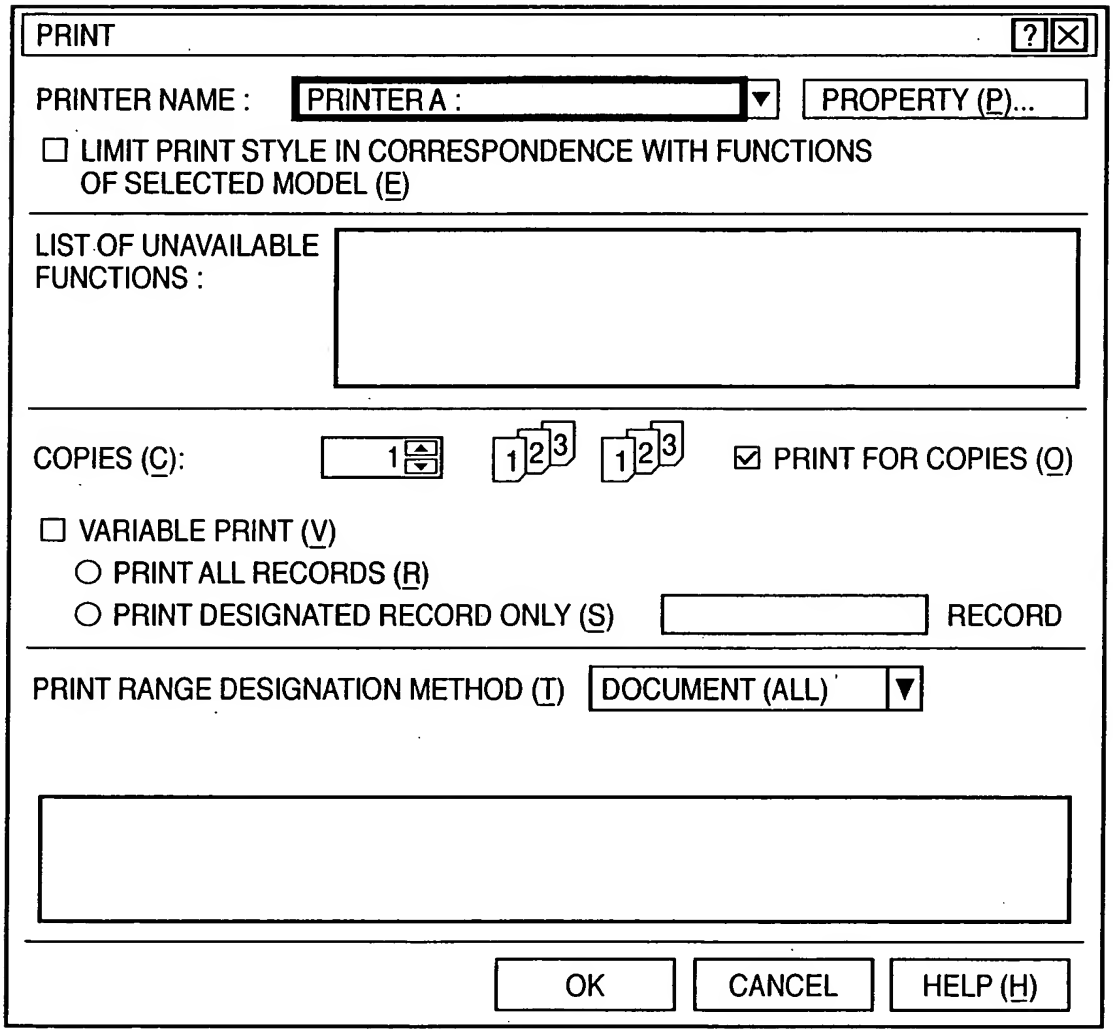

PRINT
PRINTER NAME :
PRINTER A :
PROPERTY (P)...
LIMIT PRINT STYLE IN CORRESPONDENCE WITH FUNCTIONS OF SELECTED MODEL (E)
LIST OF UNAVAILABLE FUNCTIONS :
COPIES (C):
1
PRINT FOR COPIES (O)
VARIABLE PRINT (V)
PRINT ALL RECORDS (R)
PRINT DESIGNATED RECORD ONLY (S)
RECORD
PRINT RANGE DESIGNATION METHOD (T)
DOCUMENT (ALL)
OK
CANCEL
HELP (H)

FIG. 10

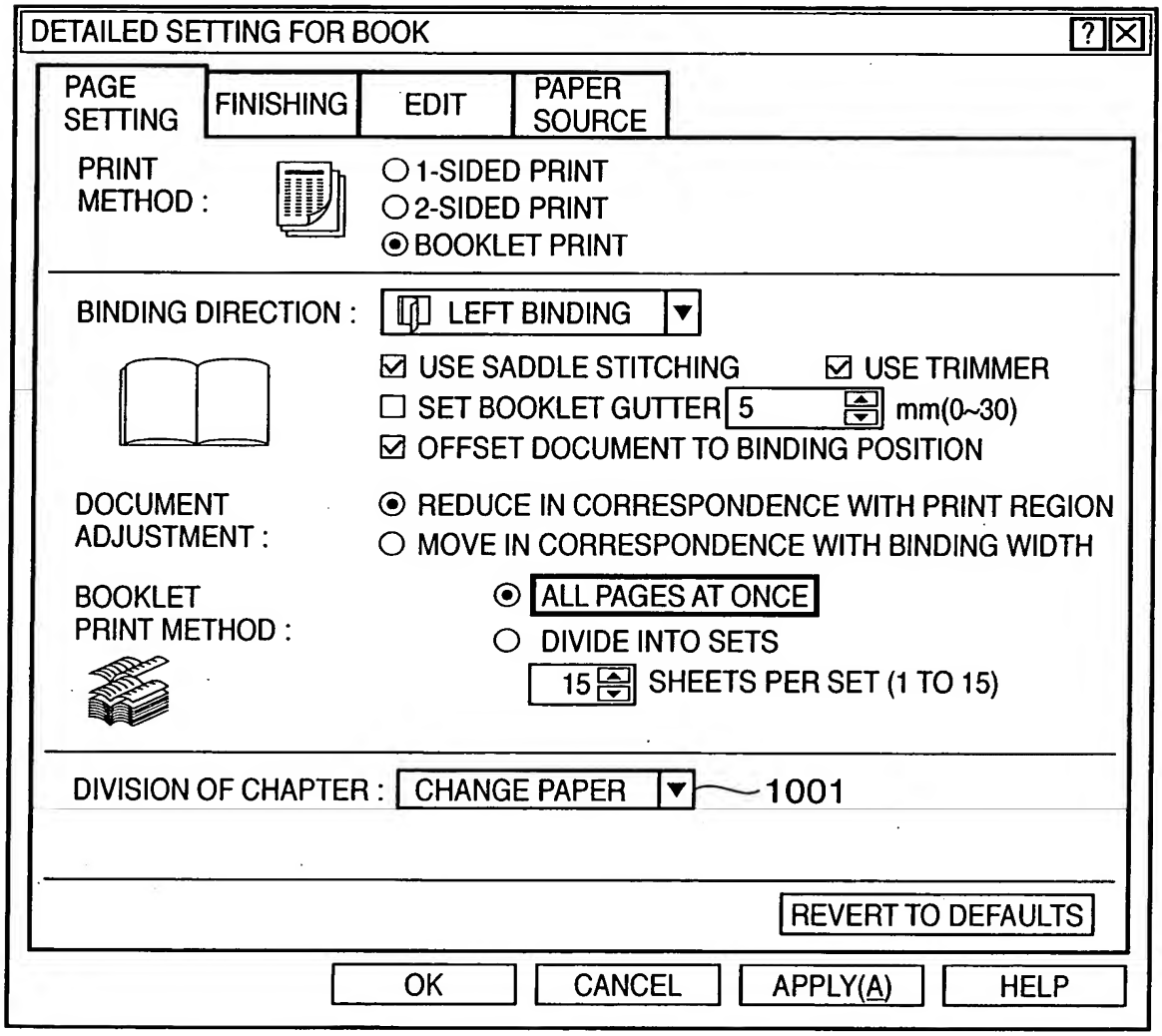

DETAILED SETTING FOR BOOK
PAGE SETTING
FINISHING
EDIT
PAPER SOURCE
PRINT METHOD :
1-SIDED PRINT
2-SIDED PRINT
BOOKLET PRINT
BINDING DIRECTION :
LEFT BINDING
USE SADDLE STITCHING
USE TRIMMER
SET BOOKLET GUTTER
5
mm(0~30)
OFFSET DOCUMENT TO BINDING POSITION
DOCUMENT ADJUSTMENT :
REDUCE IN CORRESPONDENCE WITH PRINT REGION
MOVE IN CORRESPONDENCE WITH BINDING WIDTH
BOOKLET PRINT METHOD :
ALL PAGES AT ONCE
DIVIDE INTO SETS
15
SHEETS PER SET (1 TO 15)
DIVISION OF CHAPTER :
CHANGE PAPER
1001
REVERT TO DEFAULTS
OK
CANCEL
APPLY(A)
HELP

FIG. 11

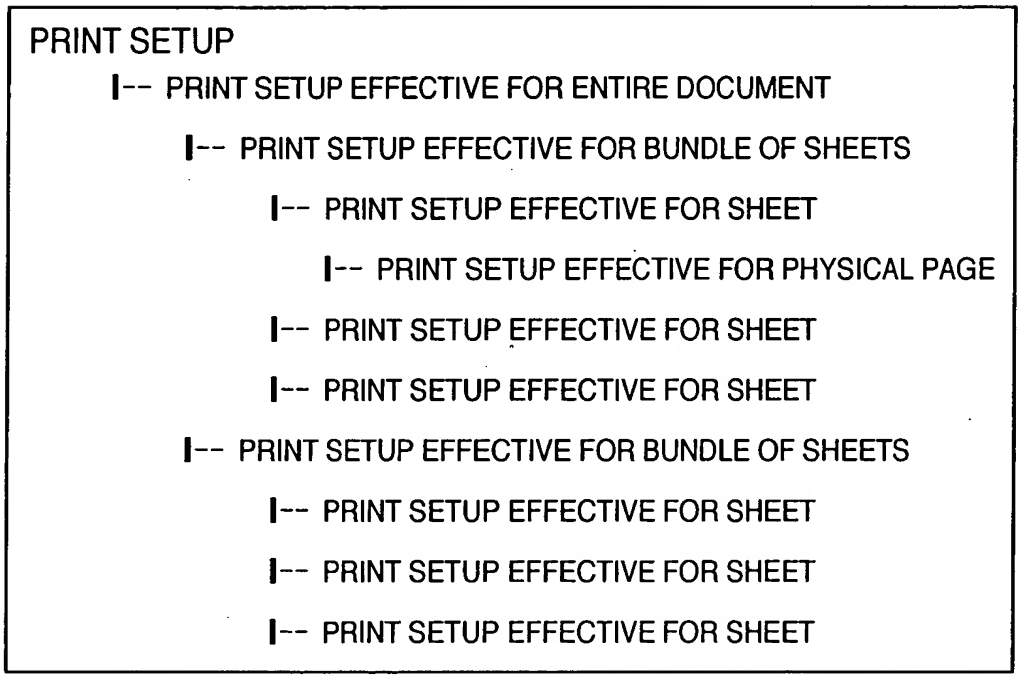

PRINT SETUP
|-- PRINT SETUP EFFECTIVE FOR ENTIRE DOCUMENT
|-- PRINT SETUP EFFECTIVE FOR BUNDLE OF SHEETS
|-- PRINT SETUP EFFECTIVE FOR SHEET
|-- PRINT SETUP EFFECTIVE FOR PHYSICAL PAGE
|-- PRINT SETUP EFFECTIVE FOR SHEET
|-- PRINT SETUP EFFECTIVE FOR SHEET
|-- PRINT SETUP EFFECTIVE FOR BUNDLE OF SHEETS
|-- PRINT SETUP EFFECTIVE FOR SHEET
|-- PRINT SETUP EFFECTIVE FOR SHEET
|-- PRINT SETUP EFFECTIVE FOR SHEET

FIG. 12

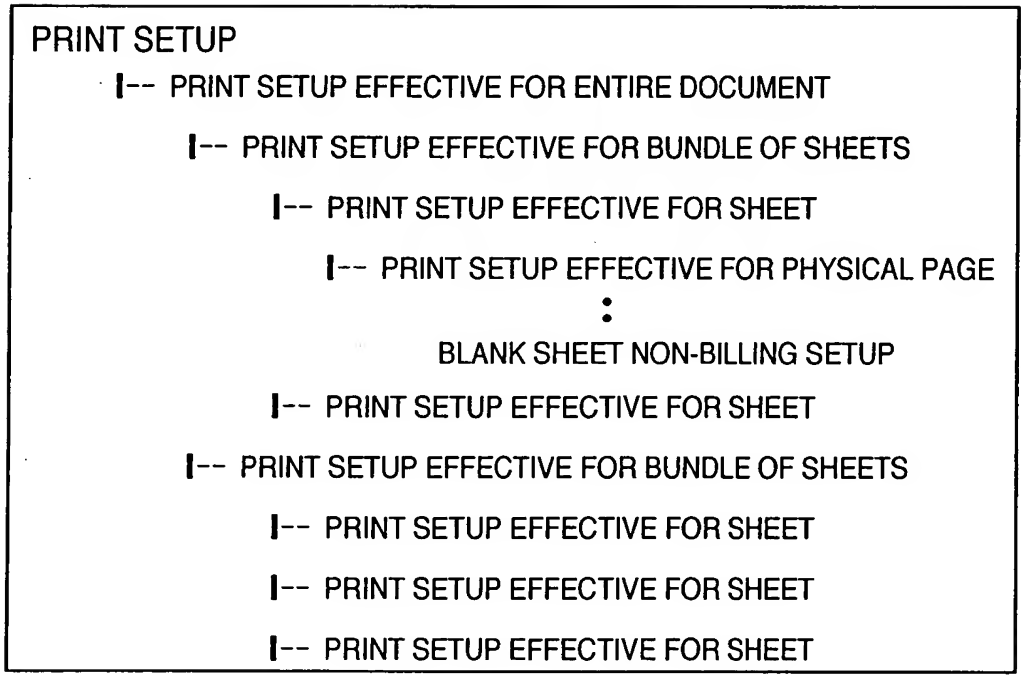
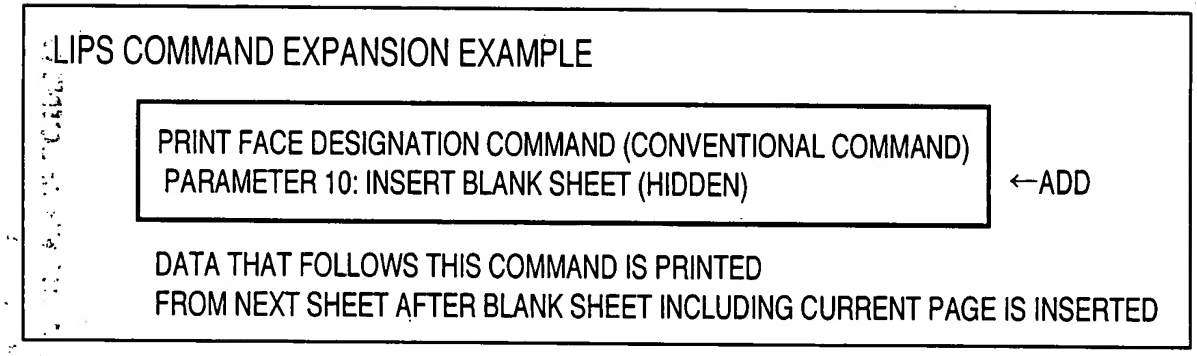

PRINT SETUP
|-- PRINT SETUP EFFECTIVE FOR ENTIRE DOCUMENT
|-- PRINT SETUP EFFECTIVE FOR BUNDLE OF SHEETS
|-- PRINT SETUP EFFECTIVE FOR SHEET
|-- PRINT SETUP EFFECTIVE FOR PHYSICAL PAGE
:
BLANK SHEET NON-BILLING SETUP
|-- PRINT SETUP EFFECTIVE FOR SHEET
|-- PRINT SETUP EFFECTIVE FOR BUNDLE OF SHEETS
|-- PRINT SETUP EFFECTIVE FOR SHEET
|-- PRINT SETUP EFFECTIVE FOR SHEET
|-- PRINT SETUP EFFECTIVE FOR SHEET

FIG. 13


LIPS COMMAND EXPANSION EXAMPLE
PRINT FACE DESIGNATION COMMAND (CONVENTIONAL COMMAND)
PARAMETER 10: INSERT BLANK SHEET (HIDDEN)
←ADD
DATA THAT FOLLOWS THIS COMMAND IS PRINTED
FROM NEXT SHEET AFTER BLANK SHEET INCLUDING CURRENT PAGE IS INSERTED